No 1st & Final

Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

Date 2017

Division: BBMP / YNK Sub Division: Yelahanka Sub – Division.

YNK-DBR No. 56
Date 31.05.17

ALE/YNK SUB. D
SBR No: 41/17-8
Dated 31/5/17

Bill Received No. Paid Divisional Cash Book Voucher No. ... Dated

Schedule Docket No. Sub Divisional Head of Account: P-0190 Work Code: 001-17-000049

Name of Work : Drilling of Borewells and providing pipe line to existing Borewell at Maruthinagara and surrounding area Ward No -01

Est.Cost: 25.00 Lakhs B R No. :

Name of Contractor and Full Address: **Technical Manager (West) KRIDL, BBMP, Bangalore.**

Reference to Agreement No. EE/YNK.D/ W.O/ 119/2016-17. Date: 6-3-2017

Certified that the measurements were taken by me on 15/05/17 and recorded of Pages 46261 to 46269 of measurement Book No. 4627 and that the work is satisfactorily executed.

Contractor

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

Officer-in-charge of work

Certified that the measurement were taken by me on 31/5/17 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Ynk. Zn.)
Yelahanka, Bangalore

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within	
2)	Deduct amount to be held in reserve being .....percent Rs.....	
3)	" Balance	
4)	Deduct Payment:	
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No.....	1st & Final Amount 2480275:00
	adjusted towards cash advance recovery of	
	b) Payments Now made { cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash	
5)	Balance being unpaid value of work done held in reserve	
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	
7)	Net amount due to or from Contractor unadjustments items.	
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	

PCD	124014:00
IT	49606:00
KST	99211:00
LC	24803:00
CDF	2480:00
T.D	300114:00
Net	2180161:00

Total amount adjusted -

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

Witness
1.
2.

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

Dated Contractor's Signature

Paid by me Cheque No. Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

(For use in the Office)

Audited & Admitted for Rs. 2480275

Stamp

2180161:00 by Cheque

and Rs. 300114:00 by adjusement

Executive Engineer

Asst Executive Engineer
Yelahanka Division
BBMP

Exe Engineer
Yelahanka Division
BBMP

sl no	Description of work	Unit
1	Geophysical investigations of site for sinking borewell for supplying drinking waster to the habitation either through the hand pump, MWS or PWSS by vertical electrical sounding by adopting verner or schlumbergers method Including rerconnaissance survey of geological formation Geeophysical investigation of existing ground water in the vicinity , nits quality, quantity and acceptabilkity7 of the users indicating the locations of site, recommended depth of casing pipe rerquired to seal the top unconsolidated formaation for proper depth of 1 meter in consolidating formation for proper seating of casing piupe depth of drilling required to cover dull deth of aquuifer proposed to be trapped propable yield and other information requirred including transportation of instrument and accessories to the work site, engaging technical personal and labour requirred (P-47 Item No 9 4)PRED SR 2012-13	No
2	Sinking of borewell of 165mm dia clear, using super fast hydralic rig of capacity 250 PSIG & above 900 CMF & above all strata including over burden up to 20m fixing of casing pipe, collars and capo with necessary cutting and threadimg including transportation of rig and swupporting vehicle, crew charges and copst of consumables etc , complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipe, collers,cap) P-47 Item No.9.1)PRED SR 2012-13	Rmtr
	0 00 to 50 00 mtrs	
	50 00 to 100 00 mtrs	
	100.00 to 150 00 mtrs	
	150 00 to 200 00 mtrs	
	200 00 to 250 00 mtrs	
	250 00 to 300 mtrs	
	300 00 to 350 mtrs	
3	Supply of ISI mark 175mm nominal bore plain end steel casing pipe grade of steel feet410 of wall thickness 5 4mm thick confirming to IS 4270 2001 and latest amendment electric resistance welded tube material and confirming to IS 1387/1993 and manufactured by basic open harth electnc or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming to IS 4270 2001 and the other wnd with screwed pipes All pipes shall be reasonally free from defects the tubes shall be reasonably straight should be with ISI marking weighing 25 10 kg/mtr (inclusive of all taxes duties) price include coller-medium duty) P-III Item No 84)	Rmtr
4	Providing 250mm dia PVC pipe 6kg/cm SE Approved Rates	Rmtr
5	Providing and Supplying 175 mm dia MS cap (as per PREC SR 2012-13) etc complete as per specification	each
6	Providing and fixing 175mm dia MS collar (PRED Bangalore Circle SR 2012-13 P No iii, I No 86)	each
7	Supply and delivery of submersible pump sets suitable for borewell of 165 mm dia with specified dyty conditions as detailed below and satisfying performance characteristics for pump and moter specified in BIS with ISI mark with a minimum efficiency of 42% pump shall confirm to IS 8034/2002 and motor conforming to IS 9283/1995 with ISI certification with latest amendments for the following 1 0 HP/75KW ATALANTA/SUGUNA/CRI/KIRLOSKAR /OTHER EQUIVALENT PUMPS (page no XXXXII / Sl No 33 Code No 2)2015-16	No's
8	Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50 mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications (SR of PWP, & IWTD SR 2018-17, P No 90, I No 13.15)	Rmtr
9	Heavy Duty Collar 50 mm dia	Nos
10	Supplying and drawing 3 crore flat PVC submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts)P No 49/ It No 25c(1) 2 5sqm of 36 strands 0 3mm dia group-A KPWD Electrical SR 2014-15	Rmtr
11	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6 00) **Page No. 558, Items No-3 BWSSB SR for 2014-15) ((4x270)/6)=180.00**	Per Length
12	Supplying and fixing 20"x20"x2 5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc , **P No. 44 / I No. 6.6.6 KPWD Electrical SR 2014-15**	Each
13	Supplying of 1 1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq mm wire armoured) confirming to IS-3975 1990 (No of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1 1988 & confirming to GTP of GROUP-A **P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15**	Mtr
14	Labour charges for laying of 1 1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required In existing trench/duct **P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**	Mtr
15	Digging of trench of 0 6m deep x 0 50 mtr wide refilling the trench to the required ground level and consolidating etc , complete (As per Civil SR KSRB I-2, P-7) **P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15**	Mtr
16	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV **P. No. 62 / I No. 7.12.1 KPWD Electrical SR 2014-15**	Mtr
17	Supplying and fixing L T cast Iron pot heads suitable for 1 1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc . **P. No. 62 / I.No. 7.13.2 KPWD Electrical SR 2014-15**	Mtr
		No

Previous 'Measurment		Present Measurement					Remarks
	cost	Qty	Rate	Cost	Qty	cost	
–	–	3	1938.46	5815.38	3.00	5815.38	
–	–			0.00	0.00	0.00	
–	–	150.00	315.18	47277.00	150.00	47277.00	
–	–	150.00	412.00	61800.00	150.00	61800.00	
–	–	150.00	458.35	68752.50	150.00	68752.50	
–	–	150.00	484.10	72615.00	150.00	72615.00	
–	–	150.00	560.32	84048.00	150.00	84048.00	
–	–	150.00	600.49	90073.50	150.00	90073.50	
–	–	149.00	640.66	95458.34	149.00	95458.34	
–	–	195.00	1325.00	258375.00	195.00	258375.00	
–	–	50.00	1721.13	86056.50	50.00	86056.50	
–	–	2.00	100.00	200.00	2.00	200.00	
–	–	10.00	150.00	1500.00	10.00	1500.00	
–	–	2.00	70600.00	141200.00	2.00	141200.00	
–	–	660.00	457.92	302227.20	660.00	302227.20	
–	–	109 110.00	130.00	14300.00 14130	110.00 109	14300.00	14170
–	–	1360.00	188.70	256632.00	1360.00	256632.00	
–	–	180	88.00	15840.00	180.00	15840.00	
–	–	2	302.00	604.00	2.00	604.00	
–	–	100.00	140.40	14040.00	100.00	14040.00	
–	–	100.00	10.80	1080.00	100.00	1080.00	
–	–	50.00	85.00	4250.00	50.00	4250.00	
–	–	8.00	345.00	2760.00	8.00	2760.00	
–	–	2.00	280.00	560.00	2.00	560.00	

sl no	Description of work	Unit
18	Supplying, fixing, wiring, earth electrode for grounding conduits, I C cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia, **(P No. 55, I No. 7.1) KPWD Electrical SR 2014-15**	No
19	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers **P No. 44 / I No. 6.7.2 KPWD Electrical SR 2014-15**	No
20	KSRB 13-7.1-4 Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 **Page No. 90 Item No. 13.55 / PWD SR 2016-17**	Nos
21	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete 50 mm dia **P. No. 92 / I. No. 13.81.3 PWD SR 2016-17**	No
22	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete	No
23	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications	No
24	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. **5-32Amps TPN P No. 47 / I No 6.16.5 KPWD SR 2014-15**	No
25	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete **P.No. 49, I. No. 6.40.2 KPWD Electrical SR 2014-15**	Sq Cm
26	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset **12.5HP to 15 HP Star Delta Starter SERDED Rate**	No
27	Cutting of road surface for pipeline trenches and disposing the excavated stuff as directed including barricadding, danger lighting etc in the Asphalt Surface Road (P.N. 257, I.N. 37.38)	Cum
28	KSRB 2-2.1 Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No. KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.3)	Cum
29	Providing and fixing to wall, ceiling and floor, medium density polyethylene pipes 6.00 kgs/sq cm working pressure 75mm outside diameter with special flange, compression type fittings, wall clips , making good the wall, ceiling and floor including cost all material, labour charges, HOM of equipments and testing complete as per specifications (P.N. 93 I.N 13.70.3)	Rmtr
30	63mm dia 6 KSC PVC pipe	Rmtr
31	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I No.20.18)	Cum
32	Refilling available earth around pipelines, cables in layers not exceeding 20cms in depth compacting each deposited layers by ramming after watering lead upto 50m and lift upto 1.5m including cost of labour complete as per specification (P.No.6 I.No.2.11)	Cum
33	KSRB 13.6.3-6 Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 P. 92 / I.13.37 PWD SR 2016-17	Each
34	Bescom Charges	
		TOTAL

Certificates:

1 The above work is done satisfactorily.
2 There is no department Material issue for the above work.
3 This works comes under BBMP Limit.

Previous Measurment		Present Measurement					Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
–	–	2	2727.00	5454.00	2.00	5454.00	
–	–	12	180.00	2160.00	12.00	2160.00	
–	–	2	1585.76	3171.52	2.00	3171.52	
–	–	2	227.90	455.80	2.00	455.80	
–	–	8	80.00	640.00	8.00	640.00	
–	–	2	350.00	700.00	2.00	700.00	
–	–	2	1547.00	3094.00	2.00	3094.00	
–	–	43200	0.33	14256.00	43200.00	14256.00	
–	–	2.00	11000.00	22000.00	2.00	22000.00	
–	–	98.40	340.00	33456.00	98.40	33456.00	
–	–	369.00	189.00	69741.00	369.00	69741.00	
–	–	578.50	320.12	185189.42	578.50	185189.42	
–	–	240.00	289.38	69451.20	240.00	69451.20	
–	–	98.40	1668.00	164131.20	98.40	164131.20	
–	–	338.58	61.00	20653.38	338.58	20653.38	
–	–	17.00	2175.12	36977.04	17.00	36977.04	
				2029 25698.00		2029 25698.00	
				22 56860 2282693		22 56860 2282693	
	8% KRIDL Service Charge+ 1% labour cess			203117 205442		203117 205442	
				Total 2488135		2480275 2488135	

2480275